AMENDMENTS TO THE CLAIMS

Please amend the claims as follows.

1. (Currently Amended) An automated method of updating data within a peer-to-peer enterprise information system comprising:

~~publishing a data change for a source data type over a broadcast channel of said peer-to-peer enterprise information system;~~

~~in response to said data change a join engine peer accessing a global attribute object model for identifying a dependent output entity, said output entity comprising a same attribute of said data change, and for identifying additional attributes for forming a modified attribute set;~~

~~generating a query directed to a source system comprising said additional attributes for forming said modified attribute set;~~

~~transmitting said query to said source system; and~~

~~responsive to a reply from said source system, said join engine peer automatically forming said modified attribute set and publishing said modified attribute set to an output source system associated with said output entity~~

publishing a data change from a first source system over a broadcast channel, wherein said data change is of a first data type;

in response to said data change, a join engine peer accessing a global attribute object model to identify a second data type and additional attributes of said second data type, wherein said global attribute object model defines a dependency between said additional attributes and attributes of a third data type;

using a query to obtain said additional attributes from a second source system, wherein said query is generated using said global attribute object model;

generating a modified attribute set comprising said additional attributes and said data change; and

publishing said modified attribute set to a third source system, wherein said third source system is associated with said third data type.

2. (Currently Amended) A method as described in Claim 1 wherein said broadcast channel is associated with an adapter peer for [[a]] said first source system for said ~~source~~ first data type.

3. (Currently Amended) A method as described in Claim 1 wherein said ~~published~~ data change includes at least one changed attribute and all other attributes of said ~~source~~ first data type.

4. (Currently Amended) A method as described in Claim 3 wherein, if said additional attributes of said ~~output entity~~ third data type are ~~contained~~ included within said all other attributes of said source data type, said join engine peer forms said modified attribute set directly from said ~~published~~ data change.

5. (Currently Amended) A method as described in Claim 1 wherein said global attribute object model maps dependencies between ~~output entity~~ attributes of said third data type and ~~source entity~~ attributes of said first data type.

6. (Currently Amended) A method as described in Claim 1 wherein said ~~forming~~ generating said modified attribute set comprises performing a data transformation.

7. (Currently Amended) A method as described in Claim 6 further comprising performing a data transformation for said ~~published~~ data change.

8. (Original) A method as described in Claim 7 wherein said performing a data transformation is by said join engine peer.

9. (Original) A method as described in Claim 8 wherein said performing a data transformation comprises automatically transforming said data change into a transformation script of a transformation language for implementation by said join engine peer.

10. (Previously Presented) A method as described in Claim 9 wherein said transformation language is compliant with XSLT syntax.

11. (Previously Presented) A method as described in Claim 9 wherein said transformation language is compliant with JAVA language syntax.

12. (Currently Amended) An automated method of updating data within a peer-to-peer enterprise information system comprising:

~~in response to a data change broadcast over a broadcast channel, a join engine peer performing a data transformation for said data change and accessing a global attribute object model for identifying a dependent output entity, said output entity comprising a same attribute of said data change, and for identifying additional attributes for forming a modified attribute set;~~

~~responsive to identifying said output entity and said additional attributes, generating a query directed to only source systems comprising said additional attributes for forming said modified attribute set;~~

~~responsive to replies from said source systems, said join engine peer automatically performing a data transformation for said additional attributes and forming said modified attribute set; and~~

~~publishing said modified attribute set to an output source system associated with said output entity~~

in response to a data change of a first data type broadcast over a broadcast channel, a join engine peer accessing a global attribute object model to identify a second data type and additional attributes of said second data type, wherein said global attribute object model defines a dependency between said additional attributes and attributes of a third data type;

responsive to identifying said second data type, using said global attribute object model to generate a query for retrieving said additional attributes from a first source system;

transmitting said query to said first source system;

responsive to a reply from said first source system, performing a data transformation to generate a modified attribute set, wherein said modified attribute set comprises said additional attributes and said data change;

publishing said modified attribute set to a second source system, wherein said second source system is associated with said third data type.

13. (Currently Amended) A method as described in Claim 12 wherein said broadcast channel is associated with an adapter peer for a <u>third</u> source system for said ~~source~~ <u>first</u> data type.

14. (Currently Amended) A method as described in Claim 12 wherein said ~~published~~ data change includes at least one changed attribute and all other attributes of said ~~source~~ <u>first</u> data type.

15. (Currently Amended) A method as described in Claim 14 wherein, if said additional attributes of said ~~output entity~~ <u>third data type</u> are ~~contained~~ <u>included</u> within said all other attributes of said ~~source~~ <u>first</u> data type, said join engine peer forms said modified attribute set directly from said ~~published~~ data change.

16. (Currently Amended) A method as described in Claim 12 wherein said global attribute object model maps dependencies between ~~output entity~~ attributes <u>of said third data type</u> and ~~source entity~~ attributes <u>of said first data type</u>.

17. (Original) A method as described in Claim 12 wherein said performing a data transformation comprises automatically transforming said data change into a transformation script of a transformation language for implementation by said join engine peer.

18. (Previously Presented) A method as described in Claim 17 wherein said transformation language is compliant with XSLT syntax.

19. (Previously Presented) A method as described in Claim 17 wherein said transformation language is compliant with JAVA language syntax.

20 – 31. (Cancelled)

32. (Currently Amended) A computer readable medium containing software instructions embodied therein for causing a computer system to perform a method for updating data within a peer-to-peer system comprising, the method comprising:

~~publishing a data change for a source data type over a broadcast channel of said peer-to-peer system;~~

~~in response to said data change a join engine peer accessing a global attribute object model for identifying a dependent output entity, said output entity comprising a same attribute of said data change, and for identifying additional attributes for forming a modified attribute set;~~

~~generating a query directed to a source system comprising said additional attributes for forming said modified attribute set;~~

~~transmitting said query to said source system; and~~

~~responsive to a reply from said source system, said join engine peer automatically forming said modified attribute set and publishing said modified attribute set to an output source system associated with said output entity~~

<u>publishing a data change of a first data type over a broadcast channel;</u>

<u>in response to said data change, a join engine peer accessing a global attribute object model to identify a second data type and additional attributes of said second data type, wherein said global attribute object model defines a dependency between said additional attributes and attributes of a third data type;</u>

<u>using said global attribute object model to generate a query for retrieving said additional attributes from a first source system;</u>

<u>transmitting said query to said first source system;</u>

<u>responsive to a reply from the first source system, generating a modified attribute set and publishing said modified attribute set to a third source system, wherein said modified attribute set comprises said additional attributes and said data change.</u>

33. (Currently Amended) The computer readable medium of Claim 32, wherein said broadcast channel is associated with an adapter peer for a <u>third</u> source system for said ~~source~~ <u>first</u> data type.

34. (Currently Amended) The computer readable medium of Claim 32, wherein said ~~published~~ data change includes at least one changed attribute and all other attributes of said ~~source~~ first data type.

35. (Currently Amended) The computer readable medium of Claim 34, wherein, if said additional attributes of said ~~output entity~~ third data type are ~~contained~~ included within said all other attributes of said ~~source~~ first data type, said join engine peer forms said modified attribute set directly from said ~~published~~ data change.

36. (Currently Amended) The computer readable medium of Claim 32, wherein said global attribute object model maps dependencies between ~~output entity~~ attributes of said third data type and ~~source entity~~ attributes of said first data type.

37. (Currently Amended) The computer readable medium of Claim 32, wherein said ~~forming~~ generating said modified attribute set comprises performing a data transformation.

38. (Currently Amended) The computer readable medium of Claim 37, further comprising performing a data transformation for said ~~published~~ data change.

39. (Previously Presented) The computer readable medium of Claim 38, wherein said performing a data transformation is by said join engine peer.

40. (Previously Presented) The computer readable medium of Claim 39, wherein said performing a data transformation comprises automatically transforming said data change into a transformation script of a transformation language for implementation by said join engine peer.

41. (Previously Presented) The computer readable medium of Claim 40, wherein said transformation language is compliant with XSLT syntax.

42. (Previously Presented) The computer readable medium of Claim 40, wherein said transformation language is compliant with JAVA language syntax.

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